

ENGLISH KEY TO THE MESOAMERICAN GENERA OF THE PANICEAE

- 1(0). Disarticulation above the lower glume or at the spikelet base ... 2
 Disarticulation at the base of the primary branches or at the nodes of the primary branches 51
- 2(1). Rachis terminating in a spikelet 3
 Rachis terminating in an unmodified naked point or terminating in a bristle 46
- 3(2). Inflorescence a panicle 4
 Inflorescence a raceme 43
- 4(3). Lower lemma with a central longitudinal groove *Thrasya*
 Lower lemma lacking a central longitudinal groove 5
- 5(4). Primary branches with appressed secondary branches or reduced to a fascicle of spikelets 6
 Primary branches with spreading secondary branches 29
- 6(5). Lemma of upper floret with flat margins 7
 Lemma of upper floret with involute margins 18
- 7(6). Second glume saccate or gibbose 8
 Second glume neither saccate nor gibbose 9
- 8(7). Lemma of lower floret with a hyaline area at the base; spikelets laterally compressed; second glume indumentum uncinate; internodes solid or spongy *Pseudechinolaena*
 Lemma of lower floret consistent in texture; spikelets dorsiventrally compressed or planoconvex; second glume indumentum not uncinate; internodes hollow *Sacciolepis*
- 9(7). Primary branches with secund or distichous spikelets 10
 Primary branches with spikelets neither secund nor distichous .. 17
- 10(9). Ligule a membrane or a ciliate membrane 11
 Ligule a fringe of hairs 14
- 11(10). First glume present 12
 First glume absent 13
- 12(11). Spikelets adaxial; internodes solid or spongy; first glume encircling the spikelet base; lemma of upper floret with margins of the same texture as the body *Hymenachne*
 Spikelets abaxial; internodes hollow; first glume not encircling the spikelet base; lemma of upper floret with margins thinner in texture than the body *Digitaria*
- 13(11). Spikelets adaxial *Axonopus*
 Spikelets abaxial *Digitaria*
- 14(10). First glume present; primary branches with loosely arranged spikelets 15
 First glume absent; primary branches with closely arranged spikelet *Axonopus*
- 15(14). First glume muticous; first glume encircling the spikelet base; second glume muticous *Scutachne*
 First glume awned; first glume not encircling the spikelet base; second glume awned 16
- 16(15). Spikelets laterally compressed; lemma of upper floret hyaline to membranous; stamens 2; callus not differentiated *Reynaudia*

- Spikelets dorsiventrally compressed; lemma of upper floret cartilaginous; stamens 3; callus differentiated *Chaetium*
- 17(9). First glume muticous; spikelets dorsiventrally compressed; main axis with distichous primary branches; pedicels truncate; second glume muticous *Triscenia*
- First glume awned; spikelets laterally compressed; main axis with quaquaversal primary branches; pedicels discoid; second glume awned *Arthropogon*
- 18(6). Lemma of upper floret differentiated at the apex 19
 Lemma of upper floret not differentiated at the apex 20
- 19(18). Internodes solid or spongy; leaf blades with an incised base; pedicels discoid; upper lemma becoming membranous at the apex *Echinochloa*
 Internodes hollow; leaf blades truncate to rounded at the base; pedicels truncate; upper lemma conduplicate at the apex *Acroceras*
- 20(18). Lemma of upper floret smooth, scabrous, striate, pitted, or papillate 21
 Lemma of upper floret rugose 28
- 21(20). Lemma of upper floret with basal scars or appendages; rachilla pronounced between the florets 22
 Lemma of upper floret without basal modifications; rachilla not pronounced between the florets 23
- 22(21). Spikelets pectinate or tightly spaced on the primary branches; first glume with bulbose-based setaceous hairs; pedicels discoid; pedicels flat to convex at the apex *Echinolaena*
 Spikelets neither pectinate nor distinctly tightly spaced on the primary branches; first glume lacking bulbose-based setaceous hairs; pedicels cupuliform; pedicels concave at the apex *Ichnanthus*
- 23(21). First glume present and awned *Oplismenus*
 First glume present or absent but not awned 24
- 24(23). Pedicels concave at the apex; spikelets adaxial 25
 Pedicels flat or convex at the apex; spikelets abaxial *Paspalum*
- 25(24). Ligule a membrane or a ciliate membrane 26
 Ligule a fringe of hairs 27
- 26(25). First glume present *Panicum*
 First glume absent *Axonopus*
- 27(25). First glume present; internodes hollow; main axis with distichous or secund primary branches *Brachiaria*
 First glume absent; internodes solid or spongy; main axis with quaquaversal primary branches *Axonopus*
- 28(20). First glume fused with the callus to form a cuplike structure *Eriochloa*
 First glume not fused with the callus *Urochloa*
- 29(5). Lemma of upper floret with flat margins 30
 Lemma of upper floret with involute margins 39
- 30(29). Primary branches with secund or distichous spikelets 31
 Primary branches with spikelets neither secund nor distichous 35
- 31(30). First glume muticous 32
 First glume awned 34
- 32(31). Ligule a membrane or a ciliate membrane 33
 Ligule a fringe of hairs *Scutachne*

- 33(32). Spikelets laterally compressed; rachilla pronounced between the florets; second glume indumentum uncinate; lemma of lower floret with a hyaline area at the base *Pseudechinolaena*
 Spikelets planoconvex; rachilla not pronounced between the florets; second glume indumentum not uncinate; lemma of lower floret consistent in texture *Digitaria*
- 34(31). Ligule a membrane; rachilla pronounced between the florets; second glume gibbose; second glume indumentum uncinate; lemma of lower floret with a hyaline area at the base *Pseudechinolaena*
 Ligule a fringe of hairs; rachilla not pronounced between the florets; second glume neither saccate nor gibbose; second glume indumentum not uncinate; lemma of lower floret consistent in texture *Reynaudia*
- 35(30). First glume present; sheaths rounded 36
 First glume absent; sheaths laterally compressed *Anthaeantia*
- 36(35). First glume muticous; second glume less than or equal to the length of the lower floret 37
 First glume awned; second glume greater than the length of the lower floret *Arthropogon*
- 37(36). Ligule a membrane; spikelets dorsiventrally compressed; lemma of upper floret with margins thinner in texture than the body *Homolepis*
 Ligule a fringe of hairs; spikelets laterally compressed; lemma of upper floret with margins of the same texture as the body 38
- 38(37). Second glume 5-nerved; main axis with distichous primary branches; internodes neither viscid nor glaucous *Rhynchelytrum*
 Second glume 7-nerved; main axis with quaquaversal primary branches; internodes viscid *Melinis*
- 39(29). Rachilla pronounced between the florets 40
 Rachilla not pronounced between the florets 41
- 40(39). Rachilla with lateral appendages; primary branches with secund spikelets; lemma of upper floret with basal scars or appendages; spikelets adaxial; first glume encircling the spikelet base *Ichnanthus*
 Rachilla lacking lateral appendages; primary branches with spikelets neither secund nor distichous; lemma of upper floret without basal modifications; spikelets abaxial; first glume not encircling the spikelet base *Isachne*
- 41(39). Spikelets dorsiventrally compressed or planoconvex; lemma of upper floret not differentiated at the apex; spikelets not divergent from the axis; first glume not inflated at the base 42
 Spikelets terete; lemma of upper floret differentiated at the apex; spikelets divergent from the axis; first glume inflated at the base *Lasiacis*
- 42(41). Ligule a membrane or a ciliate membrane; lemma of upper floret smooth, striate, or papillate; pedicels cupuliform *Panicum*
 Ligule a fringe of hairs; lemma of upper floret rugose; pedicels discoid *Urochloa*
- 43(3). Lower lemma with a central longitudinal groove; pedicels flat or convex at the apex; lemma of upper floret with involute margins *Thrasya*
 Lower lemma lacking a central longitudinal groove; pedicels concave at the apex; lemma of upper floret with flat margins 44

- 44(43). Lemma of upper floret with basal scars or appendages; pedicels flat to convex at the apex *Echinolaena*
- Lemma of upper floret lacking basal scars or appendages; pedicels concave at the apex 45
- 45(44). Lemma of lower floret with the area between the central nerve and the first lateral nerve thinner in texture than the rest of the structure; pedicels oblique to the spikelet base; main axis with distichous primary branches; second glume muticous *Mesosetum*
- Lemma of lower floret consistent in texture; pedicels perpendicular with the spikelet base; main axis with quaquaversal primary branches; second glume awned *Arthropogon*
- 46(2). Lower lemma with a central longitudinal groove; spikelets adaxial; main axis winged *Thrasya*
- Lower lemma lacking a central longitudinal groove; spikelets abaxial; main axis not winged 47
- 47(46). Lemma of lower floret with a hyaline area at the base; second glume chartaceous to indurate; second glume 13–23-nerved *Setariopsis*
- Lemma of lower floret consistent in texture; second glume hyaline to membranous; second glume less than 13-nerved 48
- 48(47). Palea of lower floret with nerves pronounced but not winged; bristles scabrous; lemma of lower floret not keeled 49
- Palea of lower floret with nerves pronounced into obvious wings; bristles smooth; lemma of lower floret keeled *Ixophorus*
- 49(48). Pedicels concave at the apex; lemma of upper floret rugose; first glume encircling the spikelet base 50
- Pedicels flat or convex at the apex; lemma of upper floret smooth, striate, or papillate; first glume not encircling the spikelet base *Paspalum*
- 50(49). Main axis with distichous primary branches *Paspalidium*
- Main axis with quaquaversal primary branches *Setaria*
- 51(1). Second glume present; stamens 3; inflorescence linear or oblong... 52
- Second glume absent; stamens 2; inflorescence lanceolate or ovate .. *Reimarochoa*
- 52(51). Second glume more than 0.1 times spikelet length; pedicels with glabrous apices; cleistogamous inflorescence absent; lemma of upper floret dull 53
- Second glume less than 0.1 times spikelet length; pedicels with hairy apices; cleistogamous inflorescence present; lemma of upper floret shiny *Paratheria*
- 53(52). Fascicles with 1–6 spikelets; spikelets not obviously opposite a flared bract 54
- Fascicles with 4 spikelets; spikelets opposite a flared bract *Anthephora*
- 54(53). Disarticulation at the nodes of the main axis or at the base of the inflorescence; main axis with distichous or secund primary branches; leaf blades acute to rounded at the apex *Stenotaphrum*
- Disarticulation at the base of the primary branches; main axis with quaquaversal primary branches; leaf blades caudate to acuminate at the apex 55
- 55(54). Callus flared to form a discoid receptacle *Cenchrus*
- Callus not flared to form a discoid receptacle *Pennisetum*

SPANISH KEY TO THE MESOAMERICAN GENERA OF THE PANICEAE

1(0).	Desarticulación arriba de la gluma inferior o en la base de la espiguilla	2
	Desarticulación en la base de la ramificación primaria o en los nudos de la ramificación primaria	51
2(1).	Raquis terminando en una espiguilla	3
	Raquis terminando en una punta desnuda no modificada o terminanda en una cerda	46
3(2).	Inflorescencia una panícula	4
	Inflorescencia un racimo	43
4(3).	Lema inferior con una cavidad central longitudinal	<i>Thrasya</i>
	Lema inferior sin una cavidad central longitudinal	5
5(4).	Ramificaciones primarias con las ramificaciones secundarias adpresas o reducidas a un fascículo de espiguillas	6
	Ramificaciones primarias con las ramificaciones secundarias abiertas	29
6(5).	Lema del flósculo superior con márgenes planos	7
	Lema del flósculo superior con márgenes involutos	18
7(6).	Segunda gluma sacciforme o gibosa	8
	Segunda gluma no sacciforme ni gibosa	9
8(7).	Lema del flósculo inferior con un área hialina en la base; espiguillas comprimidas lateralmente; segunda gluma con indumento uncinado; entrenudos sólidos o esponjosos	<i>Pseudechinolaena</i>
	Lema del flósculo inferior consistente en textura; espiguillas comprimidas dorsiventralmente o planoconvexas; segunda gluma con indumento no uncinado; entrenudos huecos	<i>Sacciolepis</i>
9(7).	Ramificaciones primarias con espiguillas secundifloras o con espiguillas dísticas	10
	Ramificaciones primarias con espiguillas ni secundifloras ni dísticas	17
10(9).	Lígula una membrana o una membrana ciliada	11
	Lígula una fimbria de pelos	14
11(10).	Primera gluma presente	12
	Primera gluma ausente	13
12(11).	Espiguillas con orientación adaxial; entrenudos sólidos o esponjosos; primera gluma encerrando la base de la espiguilla; lema del flósculo superior con márgenes no más delgados en textura que el cuerpo	<i>Hymenachne</i>
	Espiguillas con orientación abaxial; entrenudos huecos; primera gluma no encerrando la base de la espiguilla; lema del flósculo superior con márgenes más delgados en textura que el cuerpo	<i>Digitaria</i>
13(11).	Espiguillas con orientación adaxial	<i>Axonopus</i>
	Espiguillas con orientación abaxial	<i>Digitaria</i>
14(10).	Primera gluma presente; ramificaciones primarias con espiguillas dispuestas laxamente	15
	Primera gluma ausente; ramificaciones primarias con espiguillas dispuestas ordenadamente	<i>Axonopus</i>